



## MATERIAL SAFETY DATA SHEET

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MSDS #: IC1169-0101

Product Code: 4479A / F47-3131

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name:** Canon Ink Tank BCI-3eBK

**Product Code:** 4479A / F47-3131

**Manufacturer:** Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Phone # 03-3758-2111

**Supplier:** Canon USA, Inc. One Canon Plaza, Lake Success, NY, 11042, USA

**Phone # :** 1-800-OK-CANON, 24 Hr. Emergency CHEMTREC # 1-800-424-9300

### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

#### < Ingredient(s) >

Chemical Name / Generic name	CAS # / EC #	Weight %	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Glycerin	56-81-5 / 200-289-5	5 - 10	None / None	(as mist) Total dust TWA = 15 mg/m <sup>3</sup> Respirable fraction TWA = 5 mg/m <sup>3</sup>	(as mist) TWA = 10 mg/m <sup>3</sup>	Not established	Not established
Diethylene glycol	111-46-6 / 203-872-2	2 - 6	Xn / R22	Not established	Not established	Not established	10 ppm, 44 mg/m <sup>3</sup>
Ammonium benzoate	1863-63-4 / 217-468-9	1 - 3	Xi / R36	Not established	Not established	Not established	Not established
Triol	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Water	7732-18-5 / 231-79-12	65 - 85	None / None	Not established	Not established	Not established	Not established



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< Carcinogen >  
Chemical Name

CAS #

Reference

None

### SECTION 3 HAZARDS IDENTIFICATION

#### EU Classification:

Not classified as dangerous.

#### Emergency Overview:

Ink tank containing black liquid ink with slight odor.

#### Potential Health Effects and Symptoms:

##### Inhalation:

No adverse effects are expected under intended use.

Glycerin mist may cause physical irritation and difficulty breathing.

Over exposure to diethylene glycol may cause headache, nausea, dizziness, vomiting, drowsiness and cough.

##### Ingestion:

Ingestion of glycerin and/or diethylene glycol may cause headache, nausea, dizziness, vomiting, drowsiness, abdominal pain, dullness and diarrhea.

##### Eye:

May cause minimal irritation based on the animal test data of similar composition ink.

(See SECTION 11)

##### Skin:

May be no irritation and no sensitization based on the animal test data of similar composition ink.

(See SECTION 11)

#### Chronic Effects:

Not identified

#### Medical Conditions Generally known to be Aggravated by Exposure:

Not identified

### SECTION 4 FIRST AID MEASURES

#### First Aid Measures:

##### Inhalation:

If symptoms are experienced, move victim to fresh air and obtain medical advice.

##### Ingestion:

Rinse mouth. Give one or two glasses of water.

If irritation or discomfort occurs, obtain medical advice immediately.

##### Eye:

Immediately flush with water for 5 minutes or until the chemical is removed.

If irritation persists, obtain medical advice immediately.

##### Skin:

Wash with water and soap or mild detergent.

If irritation persists, obtain medical advice.

#### Note to Physicians:

None



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### SECTION 5 FIRE FIGHTING MEASURES

#### Fire Fighting Measures:

##### Extinguishing Media:

CO<sub>2</sub>, water, foam or dry chemicals

##### Unsuitable Extinguishing Media:

None

##### Special Fire Fighting Procedures:

None

##### Unusual Fire and Explosion Hazards:

None

#### Fire and Explosive Properties (See also Section 9):

##### Hazardous Combustion Products:

CO, CO<sub>2</sub> and NOx

##### Other Properties:

None

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### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal Precautions:

Avoid contact with skin, eyes and clothing.

#### Environmental Precautions:

Do not release to sewer, surface water or ground water.

#### Method for Cleaning Up:

Wipe off with wet cloth or paper.

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### SECTION 7 HANDLING AND STORAGE

#### Handling:

Use with adequate ventilation.

Avoid contact with skin, eyes and clothing.

When contact, wash out immediately.

#### Storage:

Keep in a cool and dry place.

Protect from sunlight.

Keep out of the reach of children.

#### Specific Uses:

Ink for Ink Jet Printer.

For more information, please refer to the instruction of this product.

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### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Guidelines:

Not established for this ink. (Also refer to SECTION 2)

#### Engineering Controls:

Use adequate ventilation.

#### Personal Protection Equipment(s):

**Respiratory Protection:**  Required  
 Not Required

**Eye/Face Protection:**  Required  
 Not Required

**Skin Protection:**  Required  
 Not Required

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance:</b>	Black liquid
<b>Odor:</b>	Slight odor
<b>pH:</b>	7.7 - 8.3
<b>Boiling Point/Range(°C):</b>	Not available
<b>Melting Point/Range(°C):</b>	Not available
<b>Decomposition Temperature(°C):</b>	Not available
<b>Flash Point(°C):</b>	Estimate : None
<b>Flammable (Explosive) Limits:</b>	Not available
<b>Autoignition Temperature(°C):</b>	Not available
<b>Flammability:</b>	Neither flammable nor combustible.
<b>Explosive Properties:</b>	None
<b>Oxidizing Properties:</b>	None
<b>Vapor Pressure :</b>	Not available
<b>Vapor Density :</b>	Not available
<b>Density / Specific Gravity:</b>	1.04 - 1.10
<b>Water Solubility :</b>	Miscible
<b>Fat Solubility :</b>	Not available
<b>Partition Coefficient (n-Octanol/Water):</b>	Not available
<b>Percent Volatile (%):</b>	65 - 85
<b>Evaporation Rate:</b>	Not available
<b>Viscosity (mPa s):</b>	1.78 - 2.38

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**SECTION 10 STABILITY AND REACTIVITY**

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<b>Stability:</b>	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
<b>Conditions to Avoid:</b>	None
<b>Materials to Avoid:</b>	Acids, bases, oxidizing materials and reducing agents
<b>Hazardous Decomposition Products:</b>	CO, CO <sub>2</sub> , NO <sub>x</sub> and Ammonia
<b>Hazardous Polymerization:</b>	<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur
<b>Conditions to Avoid:</b>	None

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### SECTION 11 TOXICOLOGICAL INFORMATION

**Acute Toxicity:****Inhalation:**

Not available

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**Ingestion:**

Not available

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**Eye:**

[Data of similar composition ink]

Minimal irritant (rabbit)

OECD Guidelines No.405 (1987)

92/69/EEC Method B5

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**Skin:**

[Data of similar composition ink]

Non irritant (rabbit)

OECD Guidelines No.404 (1992)

92/69/EEC Method B4

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**Sensitization:**

[Data of similar composition ink]

Non sensitizer (guinea pig)

OECD Guidelines No.406 (1992)

96/54/EC Method B6

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**Mutagenicity:**

Ames test : Negative (test strains: *S.typhimurium* & *E.Coli*)

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**Reproductive Toxicity:**

Not available

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**Carcinogenicity:**

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

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**Others:**

Not available

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### SECTION 12 ECOLOGICAL INFORMATION

**Mobility:** Not available

**Persistence / Degradability:** Not available

**Bioaccumulation:** Not available

**Ecotoxicity:** Not available

**Other Adverse Effects:** Not available

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### SECTION 13 DISPOSAL CONSIDERATION

**Method of Disposal:**

Disposal may be subject to federal, state and local laws.

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### SECTION 14 TRANSPORT INFORMATION

**UN #:** None

**UN Shipping Name:** None

**UN Classification:** None

**UN Packing Group:** None

**Marine Pollutant:**  Yes **Chemical name (wt%):** \_\_\_\_\_  
 No

**Special Precautions:** None

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### SECTION 15 REGULATORY INFORMATION

< EU Information >

**Information on the Label:**

**Symbol & Indication:** Not required

**R-Phrase:**

Not required

**S-Phrase:**

Not required

**Dangerous Component(s):**

None

**Special Precautions under 1999/45/EC Annex V:**

Not required

**Specific Provisions in Relation to Protection of Man or the Environment:**

**76/769/EEC:** Not regulated

**(EC)2037/2000:** Not regulated

**(EEC)2455/92:** Not regulated

**Others:** None

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## &lt; USA Information &gt;

**Information on the Label under FHSA:****Signal Word:** Not required**Hazard warning:**Not required**Safety Advice:**Not required**Hazardous Component(s):**None**SARA Title III §313:**

<b>Chemical Name</b>	<b>Weight %</b>
<u>None</u>	

**California Proposition 65:**

<b>Chemical Name</b>	<b>Weight %</b>
<u>None</u>	

## &lt; Canada Information &gt;

**WHMIS Controlled Product:** Not applicable (Manufactured article)

## &lt; Australia Information &gt;

**Statement of Hazardous Nature:** Not classified as hazardous according to criteria of NOHSC.

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**SECTION 16 OTHER INFORMATION**

## &lt;R phrase list&gt;

R22 : Harmful if swallowed.

R36 : Irritating to eyes.

## &lt;Revised information from the previous version&gt;

Entirely revised.

**Literature Reference:**

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EEC)2455/92
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008]

**Abbreviations:**

EU: European Union.

OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA).

ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.

EU ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.

DFG MAK: MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.

TWA: Time Weighted Average.

IARC: International Agency for Research on Cancer.

NTP: National Toxicology Program (USA).

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA).

FHSA: Federal Hazardous Substances Act (USA).

WHMIS: Workplace Hazardous Materials Information System.

NOHSC: National Occupational Health and Safety Commission Act 1985.

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